FIG. 1

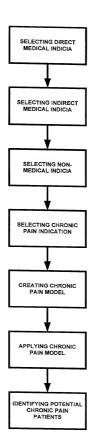


FIG. 2

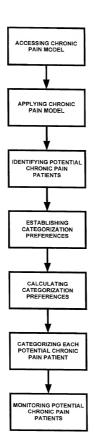


FIG. 3

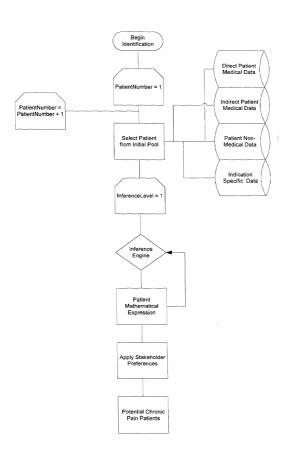


FIG. 4

# IOSHLESS THEY II

Direct Medical Indicia	Positive In	Possible Out	Probable In	Possible In
1. ICD-9-CM "Specific" Lumbar Spine Diagnoses Code			×	
2. ICD-9-CM "Non-specific" Generalized Pain Syndrome Diagnoses Codes			×	
3. ICD-9-CM Diagnosis Code Identifying a Co-morbidity Commonly				×
Associated with Lumbar Spine injury  4 TCD 6 OM "Others" Medical Condition Discussific Code Clearly		Þ		
4. ICD-3-CM Ounce Predictal Condution Diagnostic Code Clearly Attributing the Condition to a Non-Lumbar Spine Diagnosis		<		
5. ICD-9-CM Procedure Codes Indicating the Condition is Related to a		×		
Known Acute Condition (e.g. post-operative surgical pain)				
6. CPT Codes Indicating the Condition is Related to a Known Acute		X		
Condition (e.g. post-operative surgical pain)				
7. ICD-9-CM Procedure Codes Relating to Lumbar Spine Care				×
8. ICD-9-CM Procedure Codes Relating to Lumbar Spine Pain				×
9. ICD-9-CM Procedure Codes Relating to Lumbar Spine Pain Establishing a	×			
Pattern of Chronicity (time and homogeneity)				
10. CPT Codes Identifying Lumbar Spine Care-related Procedures				X
11. CPT Codes Identifying Lumbar Spine Pain-related Procedures			X	
12. CPT Codes Identifying Lumbar Spine Pain-related Procedures Establishing				
a Pattern of Chronicity				
13. Drug Prescription Codes for opioid, non-steriodal or muscle relaxant				×
indicating dosage, frequency, length of time, combinations consistent with				
spine pain treatment				
14. Drug Prescription Codes for opioid, non-steriodal or muscle relaxant				X
indicating dosage, frequency, length of time, combinations identifying				
patient as being at risk of developing a chronic lumbar pain condition				
15. Drug Prescription Codes for opioid, non-steriodal or muscle relaxant	X			
indicating dosage, frequency, length of time, combinations consistent with				
chronic spine pain treatment				

### DOSTATION DARKET

WATER THAT THE PARTY AND THE	Positive	Possible	Frobable	Fossible
	In	Out	In	П
<ol> <li>Emergency Room Visits (with ICD-9-CM, CPT or Drug Codes, or test results) Indicating a Lumbar Spine Condition</li> </ol>				×
17. Emergency Room Visits (with ICD-9-CM, CPT or Drug Codes, or test			×	
results) Indicating a Lumbar Spine Pain Condition				
18. Emergency Room Visits (with ICD-9-CM, CPT or Drug Codes, or test	×			
results) Establishing the Chronicity of a Lumbar Spine Pain Condition				
(time and pattern or homogeneity)				
19. Hospitalizations Visits (with ICD-9-CM, CPT or Drug Codes, or test				×
results) Indicating a Lumbar Spine Condition				
20. Hospitalizations Visits (with ICD-9-CM, CPT or Drug Codes, or test			×	
results) Indicating a Lumbar Spine Pain Condition				
21. Hospitalizations Visits (with ICD-9-CM, CPT or Drug Codes, or test	×			
results) Establishing the Chronicity of Lumbar Spine Pain Condition (time				
and pattern or homogeneity)				
22. Physician Office Visits (with ICD-9-CM, CPT or Drug Codes, or test				
results) Indicating a Lumbar Spine Condition		,		
23. Physician Office Visits (with ICD-9-CM, CPT or Drug Codes, or test				×
results) Indicating a Lumbar Spine Pain Condition				
24. Physician Office Visits (with ICD-9-CM, CPT or Drug Codes, or test	×			
results) Establishing the Chronicity of a Lumbar Spine Pain Condition				
(time and pattern or homogeneity of complaint)				
25. Rehabilitation or Palliative Care ICD-9-CM Procedure Codes				×
26. Telephone Consultation (with documentation relating to lumbar spine pain				×
condition)				
<ol> <li>Coded Trauma (related test result, procedure, etc.)</li> </ol>				X

Direct Medical Indicia	Maximum	Positive In	Probable In	Possible In
Drug Product	Recommended	(120 day timeframe)	(120 day timeframe)	(120 day timeframe)
Strong a blood land being will will be	Daily Dose			1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
Over the Country non-reacon rungs of the	12 tahs	12 tabs	<12 tabs	<12 tabs
Acetaminophen (1 ylenol)	17 1903	>91 days	≥91 days	<91 days
700	18 tabs	18 tabs	<18 tabs	<18 tabs
Aspirin 325mg		≥91 days	≥91 days	<91 days
# 5-200mm (Actuin)	16 tabs	16 tabs	<16 tabs	<16 tabs
Indicien 200mg (mounn)		≥91 days	≥91 days	<91 days
Solder John Amerika	<b>新工品書源以上</b> 核	SACTOR WILL		
Sally Jan 718 mm (Disoloid)	6 tabs	6 tabs	<6 tabs	<6 tabs
Salsaiate 500mg (Disalciu)		≥91 days	≥91 days	<91 days
Tr. 1 500 (Dolokid)	3 tabs	3 tabs	<3 tabs	<3 tabs
Diffumisal Southg (Doloota)		≥91 days	≥91 days	<91 days
Choloniand Related Analogsic Acents			· 计加速设施设施	
A D A D D Commission of Noncy late 100	6 tabs	6 tabs	<6 tabs	<6 tabs
AFAF/FIODOXypiene (vaps) are 100		≥91 days	≥91 days	<9 days
(Darvocet-iv 100)	12 tahs	12 tabs	<12 tabs	<12 tabs
APAP/Oxycodone 3/323 (retcocet)		≥91 days	≥91 days	<91 days
(nobooxed) 2(0)2	18 tabs	18 tabs	<18 tabs	<18 tabs
ASA/OXycouolie 3/323 (r et couait)		≥91 days	≥91 days	<91 days
A D A D (Occupations 5/500 (Tydox)	8 tabs	8 tabs	<8 tabs	<8 tabs
APAP/Oxygodone 5/300 (1910x)		≥91 days	≥91 days	<91 days
A PAPATI Jacob S/500 (Vicodin)	8 tabs	8 tabs	<8 tabs	<8 tabs
APAP/Hydrocodone 3/300 (Vicoum)		≥91 days	≥91 days	<91 days
1 D 1 D. (T. J. a. a. a. down 10/650 (I or a.)	6 tabs	6 tabs	<6 tabs	<6 tabs
APAP/Hydrocodolle 10/050 (Lorest)		≥91 days	≥91 days	<91 days
Mary True James 25/500 (I part of )	8 tabs	8 tabs	<8 tabs	<8 tabs
APAP/Hydrocodolle 2.3/300 (Lou ad)		≥91 days	≥91 days	<91 days

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Direct Medical Indicia	Maximum			
Drug Product	Adult	Positive In	Probable In	Possible In
G.	Recommended	(120 day timeframe)	(120 day timeframe)	(120 day timeframe)
A PARTITION OF THE PART	Daily Dose			
APAP/Codeine 30/300 (Tylenol-3)	12 tabs	12 tabs	<12 tabs	<12 tabs
		≥91 days	≥91 days	<91 days
Non-Steroidal Anti-inflammatory Drugs (NSAIDs)	一 な世帯が打り			· · · · · · · · · · · · · · · · · · ·
Celecoxib (Celebrex)	4 caps	4 caps	<4 caps	<4 caps
		≥91 days	≥91 days	<91 days
Diclofenac 100mg ER (Voltaren XR)	2 tabs	2 tabs	<2 tabs	<2 tabs
		≥91 days	≥91 days	<91 days
Etodolac Extended Release 400mg (Lodine XL)	3 tabs	3 tabs	<3 tabs	<3 tabs
		≥91 days	≥91 days	<91 days
Naproxen Controlled Release 500mg (Naprelan)	2 tabs	2 tabs	<2 tabs	<2 tabs
		≥91 days	≥91 days	<91 days
Nabumeton 500mg (Relafen)	4 tabs	4 tabs	<4 tabs	<4 tabs
		≥91 days	≥91 days	<91 days
Muscle Relaxants	Park Park Tal		VENZACE	VIII CONTRACTOR
Carisoprodol (Soma)	4 tabs	4 tabs	<4 tabs	<4 tabs
		≥91 days	≥91 days	<91 days
Chlorzoxazone (Paraflex)	12 tabs	12 tabs	<12 tabs	<12 tabs
		≥91 days	≥91 days	<91 days
Cylobenzaprine (Flexeril)	6 tabs	6 tabs	<6 tabs	<6 tabs
		≥91 days	≥91 days	<91 days
Diazepam 5mg (Valium)	8 tabs	8 tabs	<8 tabs	<8 tabs
		≥91 days	≥91 days	<91 days
Metaxalone (Skelaxin)	8 tabs	8 tabs	<8 tabs	<8 tabs
		≥91 days	≥91 days	<91 days
Methocarbamol 500 (Robaxin)	8 tabs	8 tabs	<8 tabs	<8 tabs
		≥91 days	≥91 days	<91 days
Orphenadrine Citrate (Norflex)	2 tabs	2 tabs	<2 tabs	<2 tabs
		≥91 days	≥91 days	<91 days

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Indirect Medical Indicia	Measure	Remarks
1. Physician Office Visits	a. Associated ICD-9-CM or CPT code.	Chronic pain patients
a. Documented reason for visit	b. Medical record notation.	frequently visit the physician
b. Physician specialty	c. Associated time period, either multiple visits within an	office, for pain related reasons
associated with visit	associated period of time; or pattern of visits showing	as well as for complaints of
c. Time period establishing	elapsed period of time (e.g. >91 days).	non-specific origin.
chronicity		
2. Emergency Room Visits	<ul> <li>a. Associated ICD-9-CM or CPT code.</li> </ul>	Chronic pain patients
a. Reason for visit	b. Associated time period, either multiple visits within an	frequently present to the ER
b. Time period establishing	associated period of time; or pattern of visits showing	for pain related reasons as
chronicity	elapsed period of time (e.g. >91 days months).	well as for complaints non-
		specific in origin.
3. Drug Therapy	a. Drug code for drugs (e.g. anti-inflammatory, anti-	Prescription and non-
a. Drug prescription	depressant, muscle relaxant, opioid) associated with	prescription drug use is a
<ul> <li>b. Drug combinations</li> </ul>	pain symptom treatment.	common indicator of chronic
c. Dosing levels	b. Drug codes, when used in combination, tend to	pain. Such drugs are often
d. Prescription patterns	indicate presence of pain.	provided to patients from a
e. Time period establishing	c. Dosing level consistently high.	variety of sources in an
chronicity	d. Multiple prescribers.	uncoordinated manner, or
f. Pattern of substance abuse	e. Associated time period establishing elapsed period of	without the development of a
	time (>91 days).	patient plan of care.
	f. Evidence of drug over use or use of illegal drugs.	
4. Telephone Consults		Chronic pain patients often
a. Documented reason for call	a. Notation in medical record, associated code if possible.	demand more attention from
b. Frequency of calls	<ul> <li>b. Calls outside the defined range of frequency for a</li> </ul>	their caregivers than the
c. Pattern of calls	typical patient.	general population, for
d. Time period establishing	<ul> <li>c. Clustered calls with a defined time period.</li> </ul>	symptom -specific as well as
chronicity	e. Associated time period establishing elapsed period	for non-symptom specific
	of time ( $\geq$ 91 days).	reasons.
	The second secon	

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Indirect Medical Indicia	Measure	Remarks
5. Primary Diagnosis	ICD-9-CM diagnostic code associated with pain	Chronic pain can be identified
	condition or trauma, or with a disease known to have	through diagnostic codes two
	associated pain condition.	ways: the pain can be a
		condition associated with a
		disease state such as diabetes
		(indirect), or it can be the
		primary reason for the pain
		condition such as low back
		pain (direct).
6. Co-Morbidities	ICD-9-CM diagnostic code associated with conditions	Certain co-morbidities are
	known to occur with chronic pain.	known to be associated with
		chronic pain.
7. Hospitalizations		Certain chronic pain patients
<ul> <li>a. Time period establishing</li> </ul>	a. Associated time period either multiple visits within an	are frequently hospitalized,
chronicity	associated period of time, or pattern of visits showing	either to treat spikes in pain,
<ul> <li>b. Admitting diagnosis</li> </ul>	elapsed period of time (e.g. >91 days).	or to receive back-related
c. Procedures performed	<ul><li>b. Associated ICD-9-CM diagnostic code.</li></ul>	procedures.
	c. Pattern of ICD-9-CM and CPT procedure codes.	
8. Evidence of trauma		Numerous chronic pain
<ul> <li>a. Diagnostic test associated</li> </ul>	<ul> <li>a. Test results such as x-ray, contained in medical</li> </ul>	indications are trauma-related
with trauma	record.	in origin (e.g. CRPS).
<ol><li>Evidence of palliative or</li></ol>		Chronic pain patients receive
rehabilitation care	a. ICD-9-CM procedure codes associated with palliative	a variety of physical therapy,
<ul> <li>a. Documented procedure</li> </ul>	or rehabilitation care.	chiropractic services,
b. Pattern of care	b. Evidence of care seeking behavior relating to	acupuncture therapy and other
<ul> <li>c. Time interval establishing</li> </ul>	combination of providers.	similar types of services to
chronicity	c. Associated time period, either multiple visits within an	treat their condition.
	associated period of time; or pattern of visits showing	
	elapsed period of time (e.g. >91 days).	
	7,45	

FIG. 7b

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Non-Medical Indicia Posi	Positive In Positive	ve Probable In	e Possible In
Patient Self-Assessment - Pain Significantly Interferes with Life Activities	×		
2. Patient Self-Assessment - High Pain Intensity Rating	×		
3. Patient Self-Assessment - Intense and Multiple Pain Descriptors	×		
4. Patient Self-Assessment - High Impact of Pain on Mood	×		
5. Patient Self-Assessment - Low Family Support		×	
6. Patient Self-Assessment - High Impact of Pain on Ability to Work	×		
7. Patient Self-Assessment - High Impact of Pain on Health Status	×		
8. Patient Self-Assessment - Downward Health Trend		×	
9. Patient Self Assessment - Depression	_	×	
10. Patient Self-Assessment - Low Life Satisfaction Score		×	
11. Patient Self-Assessment - Low Job Satisfaction Score		×	×
12. Patient Self-Assessment, or Family Assessment - Poor Community		X	×
Support Structure			
13. Patient Self-Assessment, or Family Assessment - Lack of Daytime		X	×
Distractions			
14. Patient is a Smoker		X	
15. Other Behavior Characteristics			×
Current	-		
• Past*			100
16. Patient Matches Personality/Psychological Risk Profile		×	
17. Pending Litigation Relating to Injury			×
18. Patient is Overweight by more than 25% of Normal Weight		X	
19. Patient's Job is in a High Work Risk Category			×
20. Patient Involved in Recent or Pending Divorce			×

#### FIG. 8a

### DESCRIPTION OFFICE

Non-Medical Indicia	Positive In Positive Probable Possible In	Positive	Probable	Possible In
		Out	П	
21. Other Demographic Indicators:				×
• Age			_	
Gender				
Economic status				
<ul> <li>Race/ethnicity*</li> </ul>				
22. Presence of an open workers' compensation claim				×
23. Patient has Hired an Attorney for Representation on a Work-related				×
Injury				

#### FIG. 8b

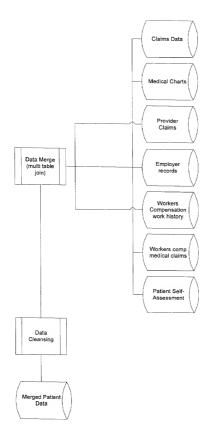


FIG. 9

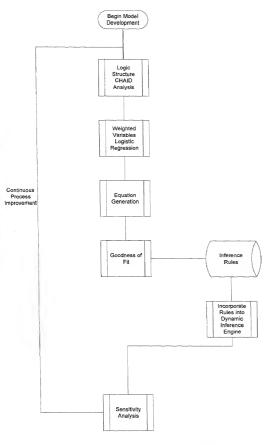


FIG. 10

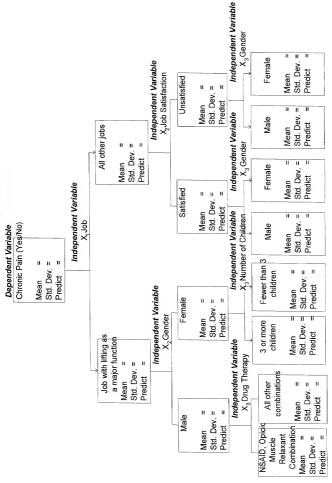


FIG. 11

# Pain Indication by Type/Site (Dependent Variable)

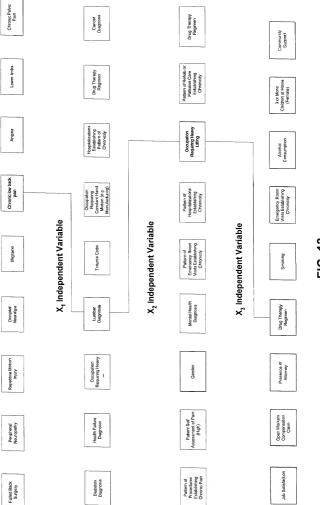


FIG. 12

Logistics Output	Variable		
Independent Variable	Parameter	Odds Ratio	P-Value
Constant	<del>(+)</del>		
Occupation Based upon Lifting (X1)	(±)	3.1	P<0.05
Gender (Male) (X <sub>2</sub> )	<del>(+)</del>	2.1	P<0.05
Drug Therapy (X <sub>3</sub> )	(+)	1.9	P<0.05
(X <sub>4</sub> )			
(X <sub>s</sub> )			

FIG. 13

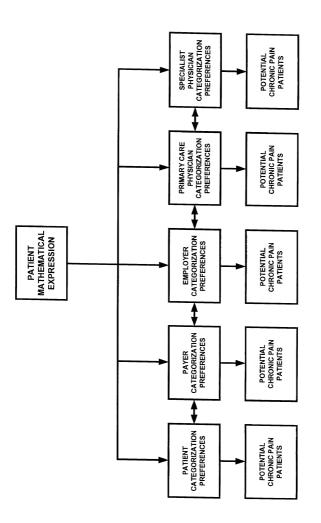


FIG. 14

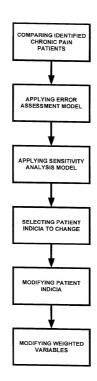


FIG. 15

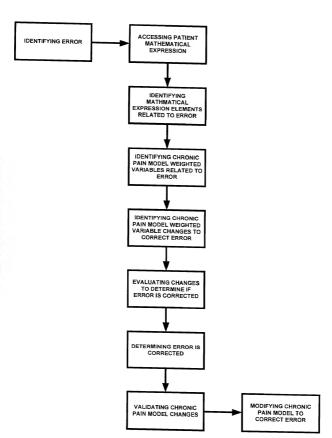


FIG. 16